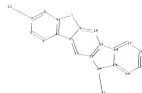
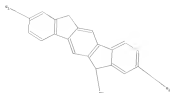


=>



chain nodes :

21 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

3-23 16-21 19-24

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 9-13 10-11 11-12 11-14 12-13 12-16 14-15 14-17 15-16 15-20
17-18 18-19 19-20

exact/norm bonds :

3-23 5-7 6-9 7-8 11-14 12-16 15-16 16-21 19-24

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-10 9-13 10-11 11-12 12-13 14-15 14-17 15-20 17-18 18-19 19-20

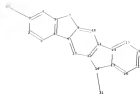
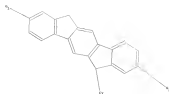
G1:X,B

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 23:CLASS 24:CLASS

L1 STRUCTURE UPLOADED

=>



chain nodes :

21 23 24

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

3-23 16-21 19-24

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 9-13 10-11 11-12 11-14 12-13 12-16 14-15 14-17 15-16 15-20
17-18 18-19 19-20

exact/norm bonds :

3-23 5-7 6-9 7-8 11-14 12-16 15-16 16-21 19-24

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-10 9-13 10-11 11-12 12-13 14-15 14-17 15-20 17-18 18-19 19-20

G1:X,B

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 23:CLASS 24:CLASS

L2 STRUCTURE UPLOADED

=> s l2 sss sam

SAMPLE SEARCH INITIATED 15:03:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3571 TO ITERATE

56.0% PROCESSED 2000 ITERATIONS

1 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 67836 TO 75004

PROJECTED ANSWERS: 1 TO 115

L3 1 SEA SSS SAM L2

=> s l2 sss full

FULL SEARCH INITIATED 15:03:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 73139 TO ITERATE

100.0% PROCESSED 73139 ITERATIONS
SEARCH TIME: 00.00.06

14 ANSWERS

L4 14 SEA SSS FUL L2

=> d scan l4

L4 14 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

1,4-Benzenediamine, N1,N4-bis(4-bromophenyl)-N1,N4-bis(4-butylphenyl)-, polymer with 2,8-dibromo-6,6-bis[4-(1,1-dimethylethyl)phenyl]-6,12-dihydro-12,12-dioctylindeno[1,2-b]fluorene, 2,2'-(2,5'-dimethyl[1,1'-biphenyl]-2,5-diyl)di-2,1-ethenediylbis[5-bromothiophene] and 2,2'-(9,10-dioctyl-2,7-phenanthrenediyl)bis[1,3,2-dioxaborolane]

L4 14 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

1,4-Benzenediamine, N1,N4-bis(4-bromophenyl)-N1,N4-bis(4-butylphenyl)-, polymer with 2,8-dibromo-6,6-bis[4-(1,1-dimethylethyl)phenyl]-6,12-dihydro-12,12-dioctylindeno[1,2-b]fluorene, 2,2'-(2,5'-dimethyl[1,1'-biphenyl]-2,5-diyl)di-2,1-ethenediylbis[5-bromothiophene] and 2,2'-(9,10-dioctyl-2,7-phenanthrenediyl)bis[1,3,2-dioxaborolane]

=> d his

(FILE 'HOME' ENTERED AT 15:02:54 ON 01 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:03:10 ON 01 APR 2008

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 1 S L2 SSS SAM
L4 14 S L2 SSS FULL

=> s l4

L5 6 L4

=> d l5 1-6 ibib hitstr

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Derivatives of 1,4-bis(2-thienylvinyl)benzene for use in polymeric organic LEDs

Author/Inventor

Buesing, Arne; Heun, Susanne; Ludemann, Aurelie; Meyer, Frank; Schulte, Niels

Patent Assignee/Corporate Source

Merck Patent G.m.b.H., Germany

Source

PCT Int. Appl., 57pp. CODEN: PIXXD2

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008011967	A1	20080131	WO 2007-EP5950	20070705

Patent Number (1)

WO 2008011967

Kind Code (1)

A1

Patent Publication Date (1)

20080131

Application Number (1)

WO 2007-EP5950

Application Date (1)

20070705

Priority Patent Number (1)

DE 2006-102006035041A

Priority Patent Publication Date (1)

20060728

L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Polymer blends for organic light emitting devices with longer lifetime

Author/Inventor

Pan, Junyou; Meyer, Frank

Patent Assignee/Corporate Source

Merck Patent GmbH, Germany

Source

PCT Int. Appl., 109pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008011953	A1	20080131	WO 2007-EP5722	20070628

Patent Number (1)

WO 2008011953

Kind Code (1)

A1

Patent Publication Date (1)

20080131

Application Number (1)

WO 2007-EP5722

Application Date (1)

20070628

Priority Patent Number (1)

EP 2006-15459

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20060725

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title

electroluminescent compounds comprising fluorene group and organic electroluminescent device using the same

Author/Inventor

Choi, Il Won; Kim, Chi Sik; Shin, Hyo Nim; Lee, Mi Ae; Shin, Hwan Seung; Kwak, Mi Young; Kim, Nam Kyun; Kim, Bong Ok; Kim, Sung Min

Patent Assignee/Corporate Source

Gracel Display Inc., S. Korea; Kwon, Hyuck Joo; Cho, Young Jun; Baek, Jung Su

Source

PCT Int. Appl., 49pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007086701	A1	20070802	WO 2007-KR456	20070126

Patent Number (1)

WO 2007086701

Kind Code (1)

A1

Patent Publication Date (1)

20070802

Application Number (1)

WO 2007-KR456

Application Date (1)

20070126

Priority Patent Number (1)

KR 2006-8840

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20060127

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Photophysical characterization of light-emitting poly(indenofluorene)s

Author/Inventor

Keivanidis, Panagiotis E.; Jacob, Josemon; Oldridge, Luke; Sonar, Prashant; Carbonnier, Benjamin; Balushev, Stanislav; Grimsdale, Andrew C.; Muellen, Klaus; Wegner, Gerhard

Patent Assignee/Corporate Source
Max Planck Institute for Polymer Research, Mainz, 55128, Germany
Source
ChemPhysChem (2005), 6(8), 1650-1660 CODEN: CPCHFT; ISSN: 1439-4235
Document Type
Journal
Language
English

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Aryl-substituted polyindenofluorenes as organic semiconductive polymers for use in organic electroluminescent devices emitting blue light, and their manufacture
Author/Inventor
Towns, Carl; Rees, Ian D.; Grizzi, Ilaria; McKiernan, Mary; Wallace, Paul; Pounds, Thomas; Foden, Clare; Heidenhain, Sophie
Patent Assignee/Corporate Source
Covion Organic Semiconductors G.m.b.H., Germany
Source
PCT Int. Appl., 39 pp. CODEN: PIXXD2
Document Type
Patent
Language
English
Patent Information

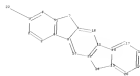
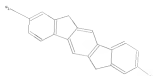
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004041901	A1	20040521	WO 2003-EP12369	20031106

Patent Number (1)
WO 2004041901
Kind Code (1)
A1
Patent Publication Date (1)
20040521
Application Number (1)
WO 2003-EP12369
Application Date (1)
20031106
Priority Patent Number (1)
GB 2002-26010
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20021108

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Poly(tetraarylindenofluorene)s: new stable Blue-emitting polymers
Author/Inventor
Jacob, Josemon; Zhang, Jingying; Grimsdale, Andrew C.; Muellen, Klaus; Gaal, Martin; List, Emil J. W.
Patent Assignee/Corporate Source
Max-Planck-Institute for Polymer Research, Mainz, 55128, Germany
Source
Macromolecules (2003), 36(22), 8240-8245 CODEN: MAMOBX; ISSN: 0024-9297
Document Type
Journal
Language
English

=>



```
chain nodes :
22 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
3-22 19-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 8-10 9-13 10-11 11-12 11-14 12-13 12-16 14-15 14-17 15-16 15-20
17-18 18-19 19-20
exact/norm bonds :
3-22 5-7 6-9 7-8 11-14 12-16 15-16 19-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-10 9-13 10-11 11-12 12-13 14-15 14-17 15-20 17-18 18-19 19-20

G1:X,B
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 22:CLASS 23:CLASS
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L6 STRUCTURE UPLOADED

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=> s l6 sss sam
SAMPLE SEARCH INITIATED 15:13:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3571 TO ITERATE

56.0% PROCESSED 2000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 67836 TO 75004
PROJECTED ANSWERS: 1 TO 115
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L7 1 SEA SSS SAM L6

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=> s l6 sss full
FULL SEARCH INITIATED 15:13:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 73139 TO ITERATE
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100.0% PROCESSED 73139 ITERATIONS
SEARCH TIME: 00.00.02

49 ANSWERS

L8 49 SEA SSS FUL L6

=> d his

(FILE 'HOME' ENTERED AT 15:02:54 ON 01 APR 2008)

FILE 'REGISTRY' ENTERED AT 15:03:10 ON 01 APR 2008

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 1 S L2 SSS SAM
L4 14 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:04:28 ON 01 APR 2008

L5 6 S L4

FILE 'REGISTRY' ENTERED AT 15:13:22 ON 01 APR 2008

L6 STRUCTURE UPLOADED
L7 1 S L6 SSS SAM
L8 49 S L6 SSS FULL

=> s l8 not l4
L9 35 L8 NOT L4

=> s l9
L10 40 L9

=> s l10 and patent/dt
6136499 PATENT/DT
L11 19 L10 AND PATENT/DT

=> d l11 1-19 ibib

L11 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Multicyclic materials for organic electronic devices and their preparation and devices using them

Author/Inventor

Buesing, Arne; Stoessel, Philipp; Heil, Holger

Patent Assignee/Corporate Source

Merck Patent G.m.b.H., Germany

Source

PCT Int. Appl., 122pp. CODEN: PIXXD2

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006449	A1	20080117	WO 2007-EP5413	20070620

Patent Number (1)

WO 2008006449

Kind Code (1)

A1

Patent Publication Date (1)

20080117

Application Number (1)

WO 2007-EP5413

Application Date (1)

20070620

Priority Patent Number (1)

DE 2006-102006031990A

Priority Patent Publication Date (1)

20060711

L11 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Multicyclic materials and organic electronic devices using them

Author/Inventor

Buesing, Arne; Stoessel, Philipp; Heil, Holger

Patent Assignee/Corporate Source
Merck Patent G.m.b.H., Germany

Source
Ger. Offen., 29pp. CODEN: GWXXBX

Document Type
Patent

Language
German

Patent Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 102006025846	A1	20071206	DE 2006-102006025846	20060602

Patent Number (1)
DE 102006025846

Kind Code (1)
A1

Patent Publication Date (1)
20071206

Application Number (1)
DE 2006-102006025846

Application Date (1)
20060602

Priority Patent Number (1)
DE 2006-102006025846A

Priority Patent Publication Date (1)
20060602

L11 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title
electroluminescent compounds comprising fluorene group and organic electroluminescent device using the same

Author/Inventor
Choi, Il Won; Kim, Chi Sik; Shin, Hyo Nim; Lee, Mi Ae; Shin, Hwan Seung; Kwak, Mi Young; Kim, Nam Kyun; Kim, Bong Ok; Kim, Sung Min

Patent Assignee/Corporate Source
Gracel Display Inc., S. Korea; Kwon, Hyuck Joo; Cho, Young Jun; Baek, Jung Su

Source
PCT Int. Appl., 49pp. CODEN: PIXXD2

Document Type
Patent

Language
English

Patent Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007086701	A1	20070802	WO 2007-KR456	20070126

Patent Number (1)
WO 2007086701

Kind Code (1)
A1

Patent Publication Date (1)
20070802

Application Number (1)
WO 2007-KR456

Application Date (1)
20070126

Priority Patent Number (1)
KR 2006-8840

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
20060127

L11 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic electroluminescent device showing excellent luminescent efficiency and brightness

Author/Inventor
Ebisawa, Akira; Kitagawa, Sumiko; Inoue, Tetsuji

Patent Assignee/Corporate Source
Tdk Corporation, Japan

Source
Jpn. Kokai Tokkyo Koho, 17pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007142171	A	20070607	JP 2005-334258	20051118

Patent Number (1)

JP 2007142171

Kind Code (1)

A

Patent Publication Date (1)

20070607

Application Number (1)

JP 2005-334258

Application Date (1)

20051118

Priority Patent Number (1)

JP 2005-334258

Priority Patent Publication Date (1)

20051118

L11 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent compounds and display device using the same

Author/Inventor

Kwon, Hyuck-Joo; Cho, Young-Jun; Yoon, Seung-Soo; Kim, Bong-Ok; Kim, Sung-Min

Patent Assignee/Corporate Source

Gracel Display Inc., S. Korea

Source

PCT Int. Appl., 69pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007061218	A1	20070531	WO 2006-KR4922	20061122

Patent Number (1)

WO 2007061218

Kind Code (1)

A1

Patent Publication Date (1)

20070531

Application Number (1)

WO 2006-KR4922

Application Date (1)

20061122

Priority Patent Number (1)

KR 2005-112046

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20051122

L11 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of nitrogenous heterocyclic derivatives as organic electroluminescent materials

Author/Inventor

Hosokawa, Chishio; Yamamoto, Hiroshi; Arakane, Takashi

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

PCT Int. Appl., 64pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007018007	A1	20070215	WO 2006-JP313596	20060707

Patent Number (1)
WO 2007018007
Kind Code (1)
A1
Patent Publication Date (1)
20070215
Application Number (1)
WO 2006-JP313596
Application Date (1)
20060707
Priority Patent Number (1)
JP 2005-227615
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20050805

L11 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Multicyclic compounds for organic electronic devices and their use and the devices

Author/Inventor

Vestweber, Horst; Heil, Holger; Stoessel, Philipp; Buesing, Arne; Parham, Amir; Fortle, Rocco

Patent Assignee/Corporate Source

Merck Patent GmbH, Germany

Source

PCT Int. Appl., 79pp. CODEN: PIXXD2

Document Type

Patent

Language

German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006122630	A1	20061123	WO 2006-EP3670	20060421

Patent Number (1)
WO 2006122630
Kind Code (1)
A1

Patent Publication Date (1)
20061123

Application Number (1)
WO 2006-EP3670

Application Date (1)
20060421

Priority Patent Number (1)
DE 2005-102005023437A

Priority Patent Publication Date (1)
20050520

L11 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of aromatic amine derivatives as doping materials for organic electroluminescent devices

Author/Inventor

Kimura, Makoto; Hosokawa, Chishio; Funahashi, Masakazu

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

PCT Int. Appl., 51pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006100896	A1	20060928	WO 2006-JP304259	20060306

Patent Number (1)
WO 2006100896

Kind Code (1)

A1

Patent Publication Date (1)

20060928

Application Number (1)

WO 2006-JP304259

Application Date (1)

20060306

Priority Patent Number (1)

JP 2005-78599

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20050318

L11 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Process for preparation of polycyclic aromatic compounds useful in organic electroluminescent devices

Author/Inventor

Inoue, Tetsuya; Kawamura, Hisayuki; Ito, Mitsunori; Hosokawa, Chishio

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

PCT Int. Appl., 61 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006001333	A1	20060105	WO 2005-JP11537	20050623

Patent Number (1)

WO 2006001333

Kind Code (1)

A1

Patent Publication Date (1)

20060105

Application Number (1)

WO 2005-JP11537

Application Date (1)

20050623

Priority Patent Number (1)

JP 2004-189367

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20040628

L11 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting polymer and organoelectroluminescent display using the same

Author/Inventor

Park, Sang-Hoon; Lee, Soo-Hyoung; Kim, Sang-Yeol; Son, Jhun-Mo; Kim, Dong-Yu

Patent Assignee/Corporate Source

Samsung SDI Co., Ltd., S. Korea

Source

U.S. Pat. Appl. Publ., 21 pp. CODEN: USXXGO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050123802	A1	20050609	US 2004-995299	20041124

Patent Number (1)

US 20050123802

Kind Code (1)

A1

Patent Publication Date (1)

20050609

Application Number (1)
US 2004-995299
Application Date (1)
20041124
Priority Patent Number (1)
KR 2003-89077
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20031209

L11 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Electronic devices comprising an organic conductor and semiconductor as well as an intermediate buffer layer made of a crosslinked polymer

Author/Inventor
Mueller, David Christoph; Reckefuss, Nina; Meerholz, Klaus; Meyer, Frank; Scheurich, Rene; Falcou, Aurelie
Patent Assignee/Corporate Source
Covion Organic Semiconductors G.m.b.H., Germany

Source
PCT Int. Appl., 28 pp. CODEN: PIXXD2

Document Type
Patent

Language
German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005024971	A1	20050317	WO 2004-EP9903	20040904

Patent Number (1)
WO 2005024971
Kind Code (1)
A1
Patent Publication Date (1)
20050317
Application Number (1)
WO 2004-EP9903
Application Date (1)
20040904
Priority Patent Number (1)
DE 2003-10340711
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20030904

L11 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Condensed aromatic compounds for red phosphors and their organic electroluminescent device

Author/Inventor
Iwakuma, Toshihiro; Hironaka, Yoshio; Arakane, Takashi; Hosokawa, Chishio; Kusumoto, Tadashi
Patent Assignee/Corporate Source
Sekiyu Sangyo Kasseika Center, Japan; Idemitsu Kosan Co., Ltd.; Petroleum Energy Center

Source
Jpn. Kokai Tokkyo Koho, 27 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238516	A	20030827	JP 2002-41472	20020219

Patent Number (1)
JP 2003238516
Kind Code (1)
A
Patent Publication Date (1)
20030827
Application Number (1)
JP 2002-41472
Application Date (1)

20020219
Priority Patent Number (1)
JP 2002-41472
Priority Patent Publication Date (1)
20020219

L11 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent component comprising acenaphtho fluoranthene

Author/Inventor

Nakatsuka, Masakatsu; Shimamura, Takehiko; Ishida, Tsutomu; Tanabe, Yoshimitsu; Totani, Yoshiyuki

Patent Assignee/Corporate Source

Mitsui Chemicals Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003123978	A	20030425	JP 2001-312528	20011010

Patent Number (1)

JP 2003123978

Kind Code (1)

A

Patent Publication Date (1)

20030425

Application Number (1)

JP 2001-312528

Application Date (1)

20011010

Priority Patent Number (1)

JP 2001-312528

Priority Patent Publication Date (1)

20011010

L11 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel aromatic diamine compound for organic electroluminescent element

Author/Inventor

Iwakuma, Toshihiro; Arakane, Takashi; Hosokawa, Chishio; Kusumoto, Tadashi

Patent Assignee/Corporate Source

Seikiyo Sangyo Kasseika Center, Japan; Idemitsu Kosan Co., Ltd.

Source

Jpn. Kokai Tokkyo Koho, 19 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003081924	A	20030319	JP 2001-279435	20010914

Patent Number (1)

JP 2003081924

Kind Code (1)

A

Patent Publication Date (1)

20030319

Application Number (1)

JP 2001-279435

Application Date (1)

20010914

Priority Patent Number (1)

JP 2001-279435

Priority Patent Publication Date (1)

20010914

L11 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title Process for preparation of 7,14-diphenylacenaphtho[1,2- k]fluoranthene derivatives and use for making organic electroluminescent devices

Author/Inventor Iwakuma, Toshihiro; Arakane, Takashi; Kusumoto, Tadashi

Patent Assignee/Corporate Source Petroleum Energy Center, Japan; Idemitsu Kosan Co., Ltd.

Source PCT Int. Appl., 47 pp. CODEN: PIXXD2

Document Type Patent

Language Japanese

Patent Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003010127	A1	20030206	WO 2002-JP7103	20020712

Patent Number (1)
WO 2003010127

Kind Code (1)
A1

Patent Publication Date (1)
20030206

Application Number (1)
WO 2002-JP7103

Application Date (1)
20020712

Priority Patent Number (1)
JP 2001-220946

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
20010723

L11 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title Spirofluorene compounds, their preparation, intermediates of them, and blue-emitting organic electroluminescent devices using them

Author/Inventor Shibanuma, Tetsuo; Takada, Kazunori; Tamura, Shinichiro

Patent Assignee/Corporate Source Sony Corp., Japan

Source Jpn. Kokai Tokkyo Koho, 45 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002326965	A	20021115	JP 2001-135248	20010502

Patent Number (1)
JP 2002326965

Kind Code (1)
A

Patent Publication Date (1)
20021115

Application Number (1)
JP 2001-135248

Application Date (1)
20010502

Priority Patent Number (1)
JP 2001-135248

Priority Patent Publication Date (1)
20010502

L11 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title Fluorene-phenylene copolymers and uses thereof

Author/Inventor Becker, Stefan; Friend, Richard; Muellen, Klaus; Mackenzie, Devin; Marsitzky, Dirk; Setayesh, Sepas

Patent Assignee/Corporate Source
Cambridge Display Technology Limited, UK; Max Planck Institut Fuer Polymerforschung

Source
PCT Int. Appl., 52 pp. CODEN: PIXXD2

Document Type
Patent

Language
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042331	A1	20010614	WO 2000-GB4594	20001201

Patent Number (1)
WO 2001042331

Kind Code (1)
A1

Patent Publication Date (1)
20010614

Application Number (1)
WO 2000-GB4594

Application Date (1)
20001201

Priority Patent Number (1)
GB 1999-28981

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
19991209

L11 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescence device having 3,3'-biacenaphtho[1,2-*c*]fluoranthene derivative

Author/Inventor
Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source
Mitsui Chemicals Inc., Japan

Source
Jpn. Kokai Tokkyo Koho, 100 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000026325	A	20000125	JP 1998-194430	19980709

Patent Number (1)
JP 2000026325

Kind Code (1)
A

Patent Publication Date (1)
20000125

Application Number (1)
JP 1998-194430

Application Date (1)
19980709

Priority Patent Number (1)
JP 1998-194430

Priority Patent Publication Date (1)
19980709

L11 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroactive and electrochromic hydrocarbon polymers

Author/Inventor
Bard, Allen J.; Debad, Jeff D.

Patent Assignee/Corporate Source
Board of Regents, the University of Texas System, USA

Source
PCT Int. Appl., 24 pp. CODEN: PIXXD2

Document Type
Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9933935	A1	19990708	WO 1998-US27844	19981230

Patent Number (1)

WO 9933935

Kind Code (1)

A1

Patent Publication Date (1)

19990708

Application Number (1)

WO 1998-US27844

Application Date (1)

19981230

Priority Patent Number (1)

US 1997-70007P

Priority Kind Code (1)

P

Priority Patent Publication Date (1)

19971230

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Connection closed by remote host

Connecting via Winsock to STN

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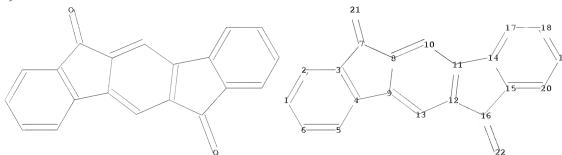
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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

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chain nodes :

21 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

chain bonds :

7-21 16-22

ring bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 8-10 9-13 10-11 11-12 11-14 12-13 12-16 14-15 14-17 15-16 15-20
17-18 18-19 19-20

exact/norm bonds :

3-7 4-9 7-8 7-21 11-14 12-16 15-16 16-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-10 9-13 10-11 11-12 12-13 14-15 14-17 15-20 17-18 18-19 19-20

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

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20.4% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 190323 TO 202197
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

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FULL SEARCH INITIATED 09:40:44 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 196799 TO ITERATE

100.0% PROCESSED 196799 ITERATIONS 70 ANSWERS
SEARCH TIME: 00.00.02

L3 70 SEA SSS FUL L1

=> d scan l3

L3 70 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

Indeno[1,2-b]fluorene-6,12-dione, radical ion(2-) (9CI)

L3 70 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

2-Anthracenecarboxamide, 4,4'-[(6,12-dihydro-6,12-dioxoindeno[1,2-b]fluorene-2,8-diyl)bis(azo)]bis[3-hydroxy-N-(4-methylphenyl)-
(9CI)

L3 70 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

Indeno[1,2-b]fluorene-2,8-dicarboxylic acid, 6,12-dihydro-6,12-dioxo-

L3 70 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

Indeno[1,2-b]fluorene-6,12-dione, 1,3-dimethyl-

=> d his

(FILE 'HOME' ENTERED AT 09:40:09 ON 02 APR 2008)

FILE 'REGISTRY' ENTERED AT 09:40:21 ON 02 APR 2008

L1 STRUCTURE UPLOADED

L2 0 S L1 SSS SAM

L3 70 S L1 SSS FULL

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L4          44 L3

-> s 14 and py<=2002
      22929633 PY<=2002
L5          28 L4 AND PY<=2002

=> s 15 and polymer
      1187153 POLYMER
      945825 POLYMERS
      1587680 POLYMERS
              (POLYMER OR POLYMERS)
L6          6 L5 AND POLYMER

=> d 16 1-6 ibib hitstr
```

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Poly(indenofluorene)s (PIF) - novel conjugated polyhydrocarbon polymers
Author/Inventor Reisch, Helge A.; Schert, Ullrich
Patent Assignee/Corporate Source Max-Planck-Institut für Polymerforschung, Mainz, D-55128, Germany
Source Synthetic Metals (1999), 101(1-3), 128-129 CODEN: SYMEDZ; ISSN: 0379-6779
Document Type Journal
Language English

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Poly(indenofluorene) (PIF), a Novel Low Band Gap Polyhydrocarbon
Author/Inventor Reisch, Helge; Wiesler, Uwe; Schert, Ullrich; Tuytuykov, Nikolai
Patent Assignee/Corporate Source Max-Planck-Institut fuer Polymerforschung, Mainz, D-55128, Germany
Source Macromolecules (1996), 29(25), 8204-8210 CODEN: MAMOBX; ISSN: 0024-9297
Document Type Journal
Language English

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis of Diacetylene Macrocycles Derived from 1,2-Diethynyl Benzene Derivatives: Structure and Reactivity of the Strained Cyclic Dimer
Author/Inventor Zhou, Qin; Carroll, Patrick J.; Swager, Timothy M.
Patent Assignee/Corporate Source Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA
Source Journal of Organic Chemistry (1994), 59(6), 1294-301 CODEN: JOCEAH; ISSN: 0022-3263
Document Type Journal
Language English

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title A soluble polymer with 6,12-dihydroindeno[1,2-b]fluorene-6,12-diyliene substructures
Author/Inventor Schert, Ullrich
Patent Assignee/Corporate Source Max-Planck-Inst. Polymerforsch., Mainz, D-55128, Germany
Source Makromolekulare Chemie, Rapid Communications (1993), 14(9), 575-9 CODEN: MCRCD4; ISSN: 0173-2803

Document Type
Journal
Language
English

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Preparation of indeno[1,2-*bc*]fluorene-6,12-diols, their derivatives and polyesters from them.

Author/Inventor

Sumner, Charles E., Jr.; Arnold, Ernest W.; Boone, Gary D.

Patent Assignee/Corporate Source

Eastman Kodak Co., USA

Source

U.S., 4 pp. CODEN: USXXAM

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5157102	A	19921020	US 1991-763840	19910923

Patent Number (1)

US 5157102

Kind Code (1)

A

Patent Publication Date (1)

19921020

Application Number (1)

US 1991-763840

Application Date (1)

19910923

Priority Patent Number (1)

US 1991-763840

Priority Patent Publication Date (1)

19910923

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Cathodic oligomerization of bis(diazo) compounds of the indenofluorene series. Part I. General features

Author/Inventor

Bethell, Donald; Gallagher, Peter; Bott, David C.

Patent Assignee/Corporate Source

Robert Robinson Lab., Univ. Liverpool, Liverpool, L69 3BX, UK

Source

Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1989), (8), 1097-104 CODEN: JCPKBH; ISSN: 0300-9580

Document Type

Journal

Language

English

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FILE 'REGISTRY' ENTERED AT 09:40:21 ON 02 APR 2008

L1 STRUCTURE UPLOADED

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L3 70 S L1 SSS FULL

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L4 44 S L3

L5 28 S L4 AND PY<=2002

L6 6 S L5 AND POLYMER

=> s 15 not 16

L7 22 L5 NOT L6

=> s 17 and patent/dt

6137111 PATENT/DT

=> d 18 1-4 ibib hitstr

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Spirofluorene compounds, their preparation, intermediates of them, and blue-emitting organic electroluminescent devices using them

Author/Inventor

Shibanuma, Tetsuo; Takada, Kazunori; Tamura, Shinichiro

Patent Assignee/Corporate Source

Sony Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 45 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002326965	A	20021115	JP 2001-135248	20010502

Patent Number (1)

JP 2002326965

Kind Code (1)

A

Patent Publication Date (1)

20021115

Application Number (1)

JP 2001-135248

Application Date (1)

20010502

Priority Patent Number (1)

JP 2001-135248

Priority Patent Publication Date (1)

20010502

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electrophotographic photosensitive member

Author/Inventor

Kikuchi, Toshihiro; Maruyama, Akio; Ohtani, Noriko; Nagahara, Shin; Tanaka, Hisami; Sakakibara, Teigo; Tanaka, Takakazu

Patent Assignee/Corporate Source

Canon K. K., Japan

Source

Eur. Pat. Appl., 573 pp. CODEN: EPXXDW

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 466094	A2	19920115	EP 1991-111402	19910709

Patent Number (1)

EP 466094

Kind Code (1)

A2

Patent Publication Date (1)

19920115

Application Number (1)

EP 1991-111402

Application Date (1)

19910709

Priority Patent Number (1)

JP 1990-180577

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19900710

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electrophotographic photoreceptors with charge-generating layer containing phenazine N,N'-dioxides or fluoren-9-ones as electron acceptors

Author/Inventor Niimi, Tatsuya; Umeda, Minoru; Hashimoto, Mitsuru

Patent Assignee/Corporate Source Ricoh Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02146050	A	19900605	JP 1988-300404	19881128

Patent Number (1)

JP 02146050

Kind Code (1)

A

Patent Publication Date (1)

19900605

Application Number (1)

JP 1988-300404

Application Date (1)

19881128

Priority Patent Number (1)

JP 1988-300404

Priority Patent Publication Date (1)

19881128

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

Title Disazo dye for high-sensitivity fog-free electrophotographic photoreceptor

Author/Inventor Takiguchi, Takao; Umehara, Masashige; Takai, Hideyuki

Patent Assignee/Corporate Source Canon K. K., Japan

Source Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63006562	A	19880112	JP 1986-148291	19860626

Patent Number (1)

JP 63006562

Kind Code (1)

A

Patent Publication Date (1)

19880112

Application Number (1)

JP 1986-148291

Application Date (1)

19860626

Priority Patent Number (1)

JP 1986-148291

Priority Patent Publication Date (1)

19860626

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1,6 6 S 1,5 AND POLYMER
1,7 22 S 1,5 NOT 1,6
1,8 4 S 1,7 AND PATENT/DT

=> s 1,7 not 1,8
1,9 18 1,7 NOT 1,8

=> d 1,9 1-18 ibib hitstr

L9 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis and Characterization of Highly Fluorescent Indenofluorenes

Author/Inventor

Merlet, Samuel; Birau, Maria; Wang, Zhi Yuan

Patent Assignee/Corporate Source

Nortel Networks-Carleton University Laboratory for Advanced Materials Research Department of Chemistry, Carleton University, Ottawa, ON, K1S 5B6, Can.

Source

Organic Letters (2002), 4(13), 2157-2159 CODEN: ORLEF7; ISSN: 1523-7060

Document Type

Journal

Language

English

L9 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Magnetic and electrochemical investigations on anions derived from oligoketones containing fluorenone and benzophenone units. An approach to the design of stable multiradical organic materials

Author/Inventor

Behrendt, Andreas; Screttas, Constantinos G.; Bethell, Donald; Schiemann, Olav; Steele, Barry R.

Patent Assignee/Corporate Source

Institute of Organic and Pharmaceutical Chemistry, National Hellenic Research Foundation, Athens, 116 35, Greece

Source

Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1998), (9), 2039-2046 CODEN: JCPKBH; ISSN: 0300-9580

Document Type

Journal

Language

English

L9 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis of bridged oligophenylenes from fluorene. Part 1. Ter- and quater-phenyls

Author/Inventor

Kelley, Charles J.; Ghiorgis, Alem; Kauffman, Joel M.

Patent Assignee/Corporate Source

Massachusetts College Pharmacy & Allied Health Sci., Boston, MA, 02115-5804, USA

Source

Journal of Chemical Research, Synopses (1997), (12), 446-447 CODEN: JRPSDC; ISSN: 0308-2342

Document Type

Journal

Language

English

L9 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Iodine-induced transannular coupling of 1,6-cyclodecadiyne

Author/Inventor

Gu, Xinhong; Sponsler, Michael B.

Patent Assignee/Corporate Source

Dep. Chem., Syracuse Univ., Syracuse, NY, 13244-4100, USA

Source

Tetrahedron Letters (1998), 37(10), 1571-4 CODEN: TELEAY; ISSN: 0040-4039

Document Type

Journal

Language

English

L9 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title A comparative study of the decomposition of o-alkynyl-substituted aryl diazo ketones. Synthesis of polysubstituted β -naphthols via arylketene intermediates

Author/Inventor Padwa, Albert; Chiacchio, Ugo; Fairfax, David J.; Kassir, Jamal M.; Litrico, Angelo; Semones, Mark A.; Xu, Simon L.

Patent Assignee/Corporate Source Dep. Chem., Emory Univ., Atlanta, GA, 30322, USA

Source Journal of Organic Chemistry (1993), 58(23), 6429-37 CODEN: JOCEAH; ISSN: 0022-3263

Document Type Journal

Language English

L9 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title A synthesis of polycyclic aromatic compounds by the calcium acetate-induced aromatization of polyoxoalkanedioates generated from diesters and acetoacetate dianion

Author/Inventor Yamaguchi, Masahiko; Hasebe, Koichi; Higashi, Hirofumi; Uchida, Minoru; Irie, Akemi; Minami, Toru

Patent Assignee/Corporate Source Dep. Appl. Chem., Kyushu Inst. Technol., Kitakyushu, 804, Japan

Source Journal of Organic Chemistry (1990), 55(5), 1611-23 CODEN: JOCEAH; ISSN: 0022-3263

Document Type Journal

Language English

L9 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Palladium acetate-mediated cyclizations of di- and trifunctional triarylamines, diaryl ethers, and diaryl ketones

Author/Inventor Hellwinkel, Dieter; Kistenmacher, Thomas

Patent Assignee/Corporate Source Org. Chem. Inst., Univ. Heidelberg, Heidelberg, D-6900/1, Fed. Rep. Ger.

Source Liebigs Annalen der Chemie (1989), (10), 945-9 CODEN: LACHDL; ISSN: 0170-2041

Document Type Journal

Language German

L9 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis of polycyclic aromatic compounds via polyketides

Author/Inventor Yamaguchi, Masahiko

Patent Assignee/Corporate Source Dep. Ind. Chem., Kyushu Inst. Technol., Kitakyushu, Japan

Source Yuki Gosei Kagaku Kyokaiishi (1987), 45(10), 969-82 CODEN: YGKKAE; ISSN: 0372-770X

Document Type Journal

Language Japanese

L9 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Electron-rich and electron-poor pentalene derivatives

Author/Inventor Frank, Wolfgang; Gommer, Rudolf

Patent Assignee/Corporate Source Inst. Org. Chem., Univ. Muenchen, Munich, D-8000/2, Fed. Rep. Ger.

Source Tetrahedron Letters (1987), 28(27), 3083-6 CODEN: TELEAY; ISSN: 0040-4039

Document Type

Journal
Language English

L9 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Fluorenacenes and fluorenaphenes. Syntheses in the indenofluorene series. XIX. Tetramethyl derivatives of trans-fluorenaphene and trans-fluorenacene
Author/Inventor Chardonnes, Louis; Bitsch, Serge; Haeger, Josef
Patent Assignee/Corporate Source Inst. Chim. Inorg. Anal., Univ. Fribourg, Fribourg, Switz.
Source Helvetica Chimica Acta (1975), 58(2), 503-7 CODEN: HCACAV; ISSN: 0018-019X
Document Type Journal
Language French

L9 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Fluorenacenes and fluorenaphenes. Synthesis of a series of indenofluorenes. XVII. Methyl derivatives of cis-fluorenacene, trans-fluorenacene, and trans-fluorenaphene
Author/Inventor Chardonnes, Louis; Laroche, Bernard; Sieber, Willy
Patent Assignee/Corporate Source Inst. Chim. Inorg. Anal., Univ. Fribourg, Fribourg, Switz.
Source Helvetica Chimica Acta (1974), 57(3), 585-99 CODEN: HCACAV; ISSN: 0018-019X
Document Type Journal
Language French

L9 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Syntheses of a series of diindenofluorenes. IX. 13,15-Dihydro-7H-diindeno[2,1-b:2',1'-h]fluorene and its 6-methyl derivative
Author/Inventor Chardonnes, Louis; Barras, Jean L.
Patent Assignee/Corporate Source Inst. Chim. Inorg. Anal., Univ. Fribourg, Fribourg, Switz.
Source Helvetica Chimica Acta (1974), 57(3), 843-9 CODEN: HCACAV; ISSN: 0018-019X
Document Type Journal
Language French

L9 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Synthesis of bisindenofluorenes. VI. 12,15-Dihydro-6H-bisindeno[1,2-b:2',1'-h]fluorene and 14,15-dihydro-8H-bisindeno[2,1-a:2',1'-h]fluorene
Author/Inventor Stauner, Thomas; Avar, Lajos; Chardonnes, Louis
Patent Assignee/Corporate Source Inst. Chim. Inorg. Anal., Univ. Fribourg, Fribourg, Switz.
Source Helvetica Chimica Acta (1970), 53(6), 1311-23 CODEN: HCACAV; ISSN: 0018-019X
Document Type Journal
Language French

L9 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

Title Fluorenacenes and fluorenaphenes. Syntheses in the indenofluorene series. XI. trans-Fluorenacene and methyl derivatives
Author/Inventor Chardonnes, Louis; Salamin, Luc
Patent Assignee/Corporate Source

Univ. Fribourg, Fribourg, Switz.
Source
Helvetica Chimica Acta (1968), 51(5), 1096-103 CODEN: HCACAV; ISSN: 0018-019X
Document Type
Journal
Language
French

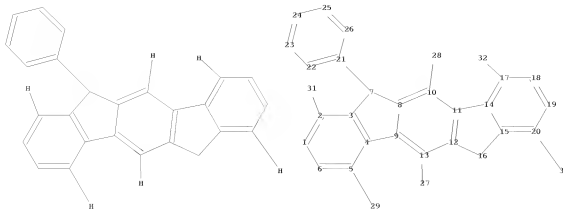
L9 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
Title
Synthesis and structure of some pyrroloindoles
Author/Inventor
Kinsley, D. A.; Plant, S. G. P.
Patent Assignee/Corporate Source
Univ. Oxford, Brighton, UK
Source
Journal of the Chemical Society (1958) 1-7 CODEN: JCSOA9; ISSN: 0368-1769
Document Type
Journal
Language
Unavailable

L9 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
Title
10,11-Diaza-trans-fluorenenedione
Author/Inventor
Ebel, Friedrich; Deuschel, Werner
Patent Assignee/Corporate Source
Badische Aniline & Soda Fabrik A.-G., Ludwigshafen a.Rhein, Germany
Source
Chemische Berichte (1956), 89, 2799-807 CODEN: CHBEAM; ISSN: 0009-2940
Document Type
Journal
Language
German

L9 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
Title
trans-Fluorenenedione, a new diketone
Author/Inventor
Ebel, Friedrich; Deuschel, Werner
Patent Assignee/Corporate Source
Badische Aniline & Soda Fabrik A.-G., Ludwigshafen a.Rhein, Germany
Source
Chemische Berichte (1956), 89, 2794-9 CODEN: CHBEAM; ISSN: 0009-2940
Document Type
Journal
Language
German

L9 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN
Title
Fluorenacenes and fluorenaphenes. Syntheses in the indenofluorene series. II. endo-cis-Fluorenaphene (indeno[2,1-a]fluorene) and trans-fluorenacene (indeno[1,2-b]-fluorene)
Author/Inventor
Deuschel, Werner
Patent Assignee/Corporate Source
Univ. Fribourg, Fribourg, Switz.
Source
Helvetica Chimica Acta (1951), 34, 2403-16 CODEN: HCACAV; ISSN: 0018-019X
Document Type
Journal
Language
German

=>
=>



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chain nodes :
27 28 29 30 31 32

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

chain bonds :
2-31 5-29 7-21 10-28 13-27 17-32 20-30

ring bonds :
1-2 1-6 2-3 3-4 3-7 4-5 4-9 5-6 7-8 8-9 8-10 9-13 10-11 11-12 11-14 12-13 12-16 14-15 14-17 15-16 15-20
17-18 18-19 19-20 21-22 21-26 22-23 23-24 24-25 25-26

exact/norm bonds :
3-7 4-9 7-8 11-14 12-16 15-16

exact bonds :
2-31 5-29 7-21 10-28 13-27 17-32 20-30

normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-10 9-13 10-11 11-12 12-13 14-15 14-17 15-20 17-18 18-19 19-20 21-22 21-26
22-23 23-24 24-25 25-26

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS

```

L10 STRUCTURE UPLOADED

=> s l10 sss sam

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 10:05:25 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5421 TO ITERATE

36.9% PROCESSED 2000 ITERATIONS

3 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 104005 TO 112835

PROJECTED ANSWERS: 3 TO 333

L11 3 SEA SSS SAM L10

L12 3 L11

=> s l10 sss full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSR (or FHITSR) to directly view retrieved structures.

FULL SEARCH INITIATED 10:05:42 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 108859 TO ITERATE

100.0% PROCESSED 108859 ITERATIONS

92 ANSWERS

SEARCH TIME: 00.00.02

L13 92 SEA SSS FUL L10

L14 31 L13

=> s l14 and py<=2002

22929633 PY<=2002

L15 7 L14 AND PY<=2002

=> d l15 1-7 ibib hitstr

L15 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent (EL) devices

Author/Inventor

Hu, Nan-Xing; Aziz, Hany; Jain, Poonam; Popovic, Zoran D.

Patent Assignee/Corporate Source

Xerox Corporation, USA

Source

U.S. Pat. Appl. Publ., 46 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020132134	A1	20020919	US 2001-771311	20010126

Patent Number (1)

US 20020132134

Kind Code (1)

A1

Patent Publication Date (1)

20020919

Application Number (1)

US 2001-771311

Application Date (1)

20010126

Priority Patent Number (1)

US 2001-771311

Priority Kind Code (1)

A3

Priority Patent Publication Date (1)

20010126

L15 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

The optical and electronic property of new blue emitting material

Author/Inventor

Shin, Jiwon; Yun, Sangyung; Shin, Dong-Myung

Patent Assignee/Corporate Source

Department of Chemical Engineering, Hong-Ik University, Seoul, 121-791, S. Korea

Source

Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2002), 377, 93-96 CODEN: MCLCE9; ISSN: 1058-725X

Document Type

Journal

Language

English

L15 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

The characteristics of the monomer fluorene derivative in electroluminescent devices

Author/Inventor

Shin, Jiwon; Choi, Dongsoo; Shin, Dong-Myung

Patent Assignee/Corporate Source

Department of Chemical Engineering, Hong-Ik University, Seoul, 121-791, S. Korea

Source

Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2001), 370, 17-22 CODEN: MCLCE9; ISSN: 1058-725X

Document Type

Journal

Language

English

L15 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Ladder-Type Oligo(p-phenylene)s Tethered to a Poly(alkylene) Main Chain: The Orthogonal Approach to Functional Light-Emitting Polymers

Author/Inventor

Xia, Chuanjun; Advincula, Rigoberto C.

Patent Assignee/Corporate Source

Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL, 35294-1240, USA

Source

Macromolecules (2001), 34(20), 6922-6928 CODEN: MAMOBX; ISSN: 0024-9297

Document Type

Journal

Language

English

L15 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Ladder type oligomeric (para-phenylene) series tethered to poly(alkylene) main chain: the orthogonal approach to functional polymers

Author/Inventor

Advincula, Rigoberto C.; Xia, Chuanjun; Inaoka, Seiji

Patent Assignee/Corporate Source

Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL, 35294-1240, USA

Source

Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2000), 41(1), 859-860 CODEN: ACPPAY; ISSN: 0032-3934

Document Type

Journal

Language

English

L15 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel polymers for light emitting diodes

Author/Inventor

Peng, Z.; Galvin, M. E.

Patent Assignee/Corporate Source

Bell Lab., Lucent Technologies, Murray Hill, NJ, 07974, USA

Source Acta Polymerica (1998), 49(5), 244-247 CODEN: ACPODY; ISSN: 0323-7648
Document Type
Journal
Language
English

L15 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2008 ACS on STN
Title

A comparative site-selective fluorescence study of ladder-type para-phenylene oligomers and oligo-phenylenevinylenes
Author/Inventor Pauck, Thilo; Baessler, Heinz; Grimme, Julian; Scherf, Ullrich; Muellen, Klaus
Patent Assignee/Corporate Source Fachbereich Physikalische Chemie und Zentrum fuer Materialwissenschaften, Philipps-Universitaet Marburg, Postfach, Marburg, D-35032, Germany
Source Chemical Physics (1996), 210(1,2), 219-227 CODEN: CMPHC2; ISSN: 0301-0104
Document Type
Journal
Language
English

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L1 1 MUELLEN/AU

=> d l1

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
Title

Donor/acceptor-substituted phenylenevinylenes
Author/Inventor Kiaerner, Gerrit; Former, Carsten; Yan, Xiaoling; Richert, Ranko; Muellen; Klaus
Patent Assignee/Corporate Source Max-Planck-Inst. Polymerforsch., Mainz, D-55128, Germany
Source Advanced Materials (Weinheim, Germany) (1996), 8(11), 932-935 CODEN: ADVMEW; ISSN: 0935-9648
Document Type
Journal
Language
English

=> s l1
L2 1 MUELLEN/AU

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